

Title (en)  
Shuttered electrical connector

Title (de)  
Elektrischer Verbinder mit Schliesseinrichtung

Title (fr)  
Connecteur électrique avec une fermeture

Publication  
**EP 0963010 A2 19991208 (EN)**

Application  
**EP 99110385 A 19990528**

Priority  
US 9263598 A 19980605

Abstract (en)  
The spring has two pairs of Z-shaped spring portion (146) arranged on each side of the shutter. The spring portion is formed with a structure abutting the shutter (124) base and intermediate structure (148). When the plug is inserted into the chamber of the socket, intermediate structure moves toward base end and free end of the structure abutting the shutter moves in plug insertion direction. The socket is having chamber for receiving plug with several contacts and several conductors are arranged in the chamber for establishing electrical contact with the contacts. The shutter is biased by the spring to a position in which the chamber is closed and the shutter moves between closed and open positions in which the plug is received in the chamber. The guide guides the shutter into the chamber towards the open position and also guides in the plug insertion direction. The guide is comprised by grooves and elongate tabs which are slidable in grooves. The grooves are formed on socket walls and tabs are provided on the shutter. The free end of one of spring portion rest in one or more slots (128) on shutter.

IPC 1-7  
**H01R 13/453**; **H01R 24/00**

IPC 8 full level  
**H01R 24/00** (2006.01); **H01R 13/453** (2006.01); **H01R 13/52** (2006.01); **H01R 107/00** (2006.01)

CPC (source: EP US)  
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**US 5964600 A 19991012**; AU 3318999 A 19991216; AU 743958 B2 20020207; CN 1238579 A 19991215; CN 1252875 C 20060419; DE 69926571 D1 20050915; DE 69926571 T2 20060614; EP 0963010 A2 19991208; EP 0963010 A3 20001129; EP 0963010 B1 20050810; JP 3120378 B2 20001225; JP H11354203 A 19991224; TW 423730 U 20010221

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